- 3. (Original) The cytotoxic reagent of claim 2, wherein said antibody is LL2.
- 4. (Original) A method of killing malignant B cells comprising contacting cells to be killed with a cytotoxic reagent expressed by recombinant DNA, comprising a sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:21, SEQ ID NO:24 and SEQ ID NO:26 covalently linked to a ligand binding moiety, said ligand binding moiety being directed against a cell surface antigen on the malignant B cells.
- 5. (Original) The method of claim 4, wherein said ligand binding moiety is an antibody.
- 6. (Original) The method of claim 5, wherein said antibody is a single chain antibody.
- 7. (Original) The method of claim 5, wherein said ligand binding moiety is an antibody directed against CD22.
 - 8. (Original) The method of claim 7, wherein said antibody is LL2.
- 9. (New) A cytotoxic reagent comprising a recombinant ribonuclease that is linked to a ligand binding moiety directed against a cell surface antigen present on a cancerous B cell, wherein the recombinant ribonuclease has:
 - (a) measurable ribonuclease activity,
 - (b) an amino terminal end beginning with a glutamine,
 - (c) a leucine at position 11; an asparagine at position 21, a threonine at position 85, and a histidine at position 103, such positions being determined through alignment with reference to those specified amino acid positions of SEQ ID NO:2, and
 - (d) substantial identity to SEQ ID NO:2.

- 10. (New) The cytotoxic reagent of claim 9, wherein said ligand binding moiety is an antibody.
- 11. (New) The cytotoxic reagent of claim 10, wherein said antibody is a single chain antibody.
- 12. (New) The cytotoxic reagent of claim 10, wherein said antibody is directed against CD22.
 - 13. (New) The cytotoxic reagent of claim 12, wherein said antibody is LL2.
- 14. (New) A cytotoxic reagent comprising a recombinant ribonuclease that is linked to a ligand binding moiety directed against a cell surface antigen present on a cancerous B cell, wherein the amino acid sequence of the recombinant ribonuclease is selected from the group consisting of: SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:24, and SEQ ID NO:26.
- 15. (New) The cytotoxic reagent of claim 14, wherein said ligand binding moiety is an antibody.
- 16. (New) The cytotoxic reagent of claim 15, wherein said antibody is a single chain antibody.
- 17. (New) The cytotoxic reagent of claim 15, wherein said antibody is directed against CD22.
 - 18. (New) The cytotoxic reagent of claim 17, wherein said antibody is LL2.